Sri Lanka Institute of Information Technology

Programming Applications and Frameworks (IT3030)

Continuous Assignment – 2023, Semester 1

Initial Document

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# Contents

This document should give a brief introduction to the assessment panel on how you are planning to implement the assignment. This document should **not** exceed seven (7) pages in length. The following details are expected.

1. A very brief project description
2. The functional requirements for the REST API and the client web application separately.

Function requirements of the REST API:

***User Management Service***

The rest API implemented for this web application should get the information about users from the database, it should have the facility to insert (PUT) users into the database , The rest API has the capability of (POST) displaying user details as well as update and delete information on a certain user. The rest api should also be able to search a user based on the username of the user requested from the database

***Like/Dislike Management (Interaction Service) / Post Management Service***

The rest Api is able manage unlike and likes for a certain post. Therefore it would provide the number of likes and dislikes for other users. Moreover, the rest api would be concerned in managing posts of a user. It will select posts by all the users as well as update and delete the certain post according to the requests of the clients

The rest api would also be able to get a certain post referring to a location.

***Follow/Unfollow Management (Interaction Service)***

In order to increase the interaction users should be able to manage follows and unfollows .The details of a followers of a particular user and the following for that user should be accessible through the rest api.

It should also have the capability to decrease once a user unfollows another user and increase once a user follows another user.

The same facility is implemented for likes and follows

***Comments Management (Interaction Service)***

A user should be able to add a comment under a certain

***Newsfeed Management Service***

Additionally the website will include a newsfeed where users themself can upload advertisements. Thus the rest api should be able to insert , update ,delete as well as retrieve the advertisements from the database

1. The non-functional requirements for the REST API and the client web application separately.
2. An overall architecture diagram for the entire system you are contracted to design and implement (you can ignore the mobile applications).
3. A detailed architecture diagram(s) for the REST API.
4. A detailed architecture diagram(s) for the client web application. You should decide upon a suitable frontend architecture.
5. References